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Wei Xiao^{1,2}, Shaoli Mao³, Jianfeng Wang⁴, Jianhua Huang^{1,2*}. TETTIGONIIDAE (ORTHOPTERA: TETTIGONIOIDEA) FROM HUNAN PROVINCE, CHINA. PART 2. SUBFAMILIES CONOCEPHALINAE, HEXACENTRINAE AND MECONEMATINAE. – Far Eastern Entomologist. 2016. N 305: 13-24.

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Summary. A checklist of 48 species of Tettigoniidae (subfamilies Conocephalinae, Hexacentrinae and Meconematinae) recorded from Hunan Province of China is given based on the materials examined and published data. Ten species are new to the fauna of Hunan Province.

Key words: Orthoptera, Tettigoniidae, Conocephalinae, Meconematinae, Hexacentrinae, fauna, Hunan, China.

В. Цяо, Ш. Мао, Ж. Ванг, Я. Хуанг. Tettigoniidae (Orthoptera: Tettigonioidae) провинции Хунань, Китай. Часть 2. Подсемейства Conocephalinae, Hexacentrinae и Meconematinae // Дальневосточный энтомолог. 2016. N 305. С. 13-24.

Резюме. Приведен аннотированный список 48 видов кузнечиков (Tettigoniidae) подсемейств Conocephalinae, Hexacentrinae и Meconematinae, отмеченных из китайской провинции Хунань на основании изученного материала и литературных данных. Впервые для провинции Хунань указываются 10 видов.

INTRODUCTION

Hunan is located at the central part of South China, covering an area of about 210000 square kilometers between 24°39'–30°38' N and 108°47'–114°15' E, and having a common boundary with Jiangxi, Hubei, Chongqing, Guizhou, Guangxi, Guangdong respectively in the east, north, west and south. A tabular checklist of the 52 species of the family Tettigoniidae (subfamilies Mecopodinae, Phaneropterinae, Pseudophyllinae, Tettigoniinae and Lipotactinae) recorded from Hunan Province has been published recently (Xiao & Huang, 2015). Here we prepare a list of 48 species of the subfamilies Conocephalinae, Hexacentrinae and Meconematinae based on the published data (Kang, 1992; Gorochoy, 1993; Jin & Xia, 1994; Liu & Zhang, 2000, 2001; Gorochoy *et al.*, 2005; Shi *et al.*, 2005; Liu & Zhang, 2007; Liu *et al.*, 2010; Zhou *et al.*, 2010; Chang *et al.*, 2012; Shi & Bian, 2012; Shi *et al.*, 2013, 2014; Wang *et al.*, 2014; 2015) and materials collected by us in Hunan province.

LIST OF THE SPECIES

Subfamily Conocephalinae

Conanalus axinus Shi, Wang et Fu, 2005

MATERIAL EXAMINED. **Hunan Province:** Yangmingshan, 18.VIII 2000, ♂, 2♀ (holotype and paratypes), Peng Fu leg.; the same locality, 30.IX 2004, 13♂, 8♀, Jianhua Huang leg.; Xinning County, 27. IX 1998 1♂ (paratype), Peibai Zhu leg.; Zhangjiajie, Taimenshan, 13.X 2003, 3♂, 2♀, Jianhua Huang leg.; Yuanling County, Jiemuxi, Hunan Province, 1-2.VIII 2004, 8♂, 6♀, Jianfeng Wang & Jiliang Wang leg.; Fenghuang County, Liangtouyang, 30.VII 2004, 1♂, 1♀, Jianfeng Wang & Jiliang Wang leg.; Anhua County, Liubuxi, 16.VII 2004, 1♂, Jianfeng Wang leg.; Jiangyong County, Qianjiadong, 18.IX 2004, 1♀, Jianhua Huang leg.; Jiangyong County, Yuankou, 23.IX 2004, 3♂, 1♀, Jianhua Huang leg. **Guangxi Province:** Xing'an County, 22.IX 2001, 1♀, Guofang Jiang leg.; Tian'eshan forestry station, 2-3.VIII 2002, 2♂, Guofang Jiang leg.

DISTRIBUTION. China (Hunan, Guangxi).

Conanalus pieli (Tinkham, 1943)

MATERIAL EXAMINED. **Hunan Province:** Wudaoshui, Sangzhi County, 11.X 2004, 22♂, 10♀, Jianfeng Wang leg.; Zhangjiajie, 13-14.VIII 2004, 6♂, 7♀, Jianfeng Wang leg.; Shimen County, 17.VIII 2004, 21♂, 8♀, Jianfeng Wang leg.; Sangzhi County, Badagongshan, 12-14.VIII 2001, 11♂, 6♀, Fuming Shi leg.; the same locality, 15.X 2003, 1♂, Jianhua Huang leg.; Sangzhi County, Badagongshan, Wudaoshui, 13.X 2014, 1♂, 4♀, Jianhua Huang leg.; the same locality, 12.X 2014, 1♂, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Hubei, Shaanxi, Henan, Sichuan, Chongqing, Guizhou, Anhui, Jiangxi, Zhejiang).

Conocephalus (Amurocephalus) chinensis (Redtenbacher, 1891)

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Heilongjiang, Jilin, Shaanxi, Inner Mongolia, Hebei, Hubei, Anhui, Jiangsu, Shanghai, Jiangxi). – Mongolia, Russia, Korea, Japan.

NOTES. This species was recorded from Hunan Province by Kang (1992).

Conocephalus (Anisoptera) exemptus (Walker, 1869)

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, 11.VIII 2004, 6♂ 6♀, Jianfeng Wang leg.; CHINA: Sangzhi County, Badagongshan, Wudaoshui, 13.X 2014, 1♂, 6♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Zhejiang, Shanghai, Anhui, Jiangxi, Fujian, Taiwan, Henan, Hubei, Guangdong, Guangxi, Shaanxi, Chongqing, Sichuan, Guizhou, Yunnan, Xizang). – Korea, Japan.

NOTES. This species was firstly recorded from Hunan as *Conocephalus gladiatus* (Redtenbacher, 1891) (Kang, 1992), which is considered now as a junior synonym of *Conocephalus exemptus* (Walker, 1869) (Eades *et al.*, 2015).

Conocephalus (Anisoptera) longipennis (Haan, 1842)

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Sichuan, Anhui, Zhejiang, Shanghai, Fujian, Taiwan, Xianggang, Hainan, Guangxi, Xizang). – Japan, Philippines, Indonesia, Myanmar, Sri Lanka.

NOTES. This species was recorded from Hunan by Xia & Liu (1993).

Conocephalus (Anisoptera) maculatus (Le Guillou, 1841)

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Beijing, Hebei, Shaanxi, Shanxi, Sichuan, Guizhou, Yunnan, Shanghai, Jiangxi, Zhejiang, Fujian, Guangdong, Xianggang, Taiwan). – Japan, Korea, Malaysia, Indonesia, Philippines, India, Africa.

NOTES. This species was recorded from Hunan by Kang (1992) and Xia & Liu (1993).

Conocephalus (Anisoptera) melaenus (Haan, 1842)

MATERIAL EXAMINED. **Hunan Province:** Yuanling County, Jiemuxi, 3.VIII 2004, 1♂, Jianfeng Wang leg.; Sangzhi County, Badagongshan, Wudaoshui, 13.X 2014, 1♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Henan, Sichuan, Guizhou, Hubei, Anhui, Jiangsu, Shanghai, Zhejiang, Fujian, Jiangxi, Guangdong, Hainan, Guangxi, Yunnan, Taiwan). – Japan, Nepal, India, Thailand, Singapore, Indonesia.

NOTES. This species was firstly recorded from Hunan as *Conocephalus melas* (Haan, 1842) (Kang, 1992), the species name which derived from a subsequent misspelling, and the correct spelling is *melaenus* (Eades *et al.*, 2015).

Conocephalus (Conocephalus) bambusanus Ingrisch, 1990

MATERIAL EXAMINED. **Hunan Province:** Yongshun County, Xiaoxi, 6.VIII 2004, 1♀, Jianfeng Wang leg.

DISTRIBUTION. China (Hunan, Henan, Sichuan, Yunnan, Guangxi, Xizang). – Japan, Korea, Thailand.

NOTES. Here this species is firstly recorded from Hunan Province.

Conocephalus (Conocephalus) brevivalvus (Shi, Wang et Fu, 2005)

MATERIAL EXAMINED. **Hunan Province:** Yangmingshan, 18.VIII 2000, 3♀ (holotype and paratypes), Peng Fu leg.

DISTRIBUTION. China (Hunan).

NOTES. This species was described from Hunan as *Conanalis brevivalva* (Shi *et al.*, 2005), but latter it was transferred to the genus *Conocephalus* (Zhou *et al.*, 2010).

Euconocephalus nasutus (Thunberg, 1815)

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, Nanmuping, 15.X 2014, 1♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Sichuan, Chongqing, Guizhou, Zhejiang, Fujian, Guangdong, Guangxi, Hainan, Taiwan). – Japan, India, Thailand, Indonesia.

Euconocephalus pallidus (Redtenbacher, 1891)

MATERIAL EXAMINED. **Hunan Province:** county seat of Tongdao, 22.VII 2004, 1♀, Jianfeng Wang leg.

DISTRIBUTION. China (Hunan, Fujian, Guangdong, Guangxi, Hainan, Yunnan, Taiwan). – Vietnam, Myanmar, Thailand, Singapore, Philippines, Indonesia, New Guinea, Sri Lanka.

NOTES. Here this species is firstly recorded from Hunan Province.

***Euconocephalus varius* (Walker, 1869)**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Jiangsu, Xianggang). – Bangladesh, Malaysia.

NOTES. This species was recorded from Hunan by Kang (1992).

***Pseudorhynchus crassiceps* (Haan, 1842)**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Henan, Chongqing, Guizhou, Yunnan, Shanghai). – Indonesia.

NOTES. This species was recorded from Hunan by Xia & Liu (1993).

***Pseudorhynchus pyrgocorypha* (Karny, 1920)**

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, Wudaoshui, 13.X 2014, 1♂, 1♀, Jianhua Huang leg.

DISTRIBUTION. CHINA (Hunan, Yunnan, Sichuan, Chongqing, Guizhou, Jiangxi, Zhejiang, Fujian).

NOTES. This species was described originally as *Euconocephalus pyrgocorypha* (Karny, 1920). Otte (1997) placed it to the genus *Ruspolia*. Liu & Jin (1999) transferred it to the genus *Pseudorhynchus* and recorded its distribution in Hunan for the first time.

***Ruspolia dubia* (Redtenbacher, 1891)**

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, 15.X 2003, 2♂, Jianhua Huang leg.; the same locality, 11.X 2014, 1♂, Jianhua Huang leg.; Yongshun County, Xiaoxi, 6.VIII 2004, 2♀, Jianfeng Wang leg.; Zhangjiajie, 13-14.VIII 2004, 6♂, 7♀, Jianfeng Wang leg.; Hupingshan, 18-20.VIII 2004, 2♂, Jianfeng Wang leg.

DISTRIBUTION. China (Hunan, Heilongjiang, Hebei, Gansu, Shanxi, Sichuan, Chongqing, Guizhou). – Japan, Korea.

NOTES. Here this species is firstly recorded from Hunan Province.

***Ruspolia lineosa* (Walker, 1869)**

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Xishaping, 12.X 2014, 1♂, 1♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Henan, Sichuan, Yunnan, Guizhou, Chongqing, Hubei, Anhui, Shanghai, Jiangxi, Zhejiang, Fujian, Taiwan). – Japan, Korea, Myanmar, Sri Lanka.

NOTES. This species was firstly recorded from Hunan as *Homorocoryphus lineosus* (Walker, 1869) (Kang, 1992), but latter placed in the genus *Ruspolia* (Jin & Xia, 1994).

Subfamily Hexacentrinae

***Hexacentrus japonicus* Karny, 1907**

MATERIAL EXAMINED. **Hunan Province:** Zhangjiajie, 11.VIII 2001, 2♂, Fuming Shi leg.; Yanling County, Taoyuandong, 16.IX 2001, 1♀, Wei Xiao leg.; Sangzhi County, Badagongshan, Wudaoshui, 13.X 2014, 1♂, 2♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Henan, Shandong, Sichuan, Chongqing, Guizhou, Hubei, Anhui, Shanghai, Fujian). – Japan, Korea.

***Hexacentrus unicolor* Serville, 1831**

MATERIAL EXAMINED. **Hunan Province:** Zhangjiajie, 11.VIII 2001, 2♂, Fuming Shi leg.; Yanling County, Taoyuandong, 16.IX 2001, 1♀, Wei Xiao leg.

DISTRIBUTION. China (Hunan, Sichuan, Guizhou, Hubei, Jiangxi, Zhejiang, Shanghai, Fujian, Taiwan). – Japan, Korea, Nepal, Vietnam, Malaysia, Indonesia.

Subfamily Meconematinae

***Allicyrtaspis globosis* Shi, Bian et Chang, 2013**

MATERIAL EXAMINED. **Hunan Province:** Wugang County, Yunshan, 9.X 2004, 1♂ (holotype), Jianhua Huang leg.

DISTRIBUTION. China (Hunan).

***Alloxiphidiopsis emarginata* (Tinkham, 1944)**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Guangxi, Sichuan, Guizhou, Yunnan).

NOTES. This species was firstly recorded from Hunan as *Xiphidiopsis emarginata* (Xia & Liu, 1993), but latter transferred to the genus *Alloxiphidiopsis* (Liu & Zhang, 2007).

***Decma (Decma) fissa* (Hsia et Liu, 1993)**

MATERIAL EXAMINED. **Hunan Province:** Zhangjiajie, 11.VIII 2001, 3♂, Fuming Shi leg.; the same locality, 13.VIII 2004, 1♂, Jianfeng Wang & Jiliang Wang leg.; Shimen County, Hupingshan, 17-20.VIII 2004, 13♂, 10♀, Jianfeng Wang & Jiliang Wang leg.; Yongshun County, Xiaoxi, 6-7.VIII 2004, 5♂, 3♀, Jianfeng Wang & Jiliang Wang leg.; Yuanling County, Jiemuxi, 1.VIII 2004, 1♂, 1♀, Jianfeng Wang & Jiliang Wang leg.; Fenghuang County, Liangtouyang, 30.VI 2004, 2♂, Jianfeng Wang & Jiliang Wang leg.; Sangzhi County, Badagongshan, 10.VIII 2004, 1♂, 1♀, Jianfeng Wang & Jiliang Wang leg.; Anhua County, Liubuxi, 17.VII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Sangzhi County, Badagongshan, Nanmuping, 14.X 2014, 3♂, 5♀, Jianhua Huang leg.; the same locality, 13.X 2014, 5♂, 7♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Hubei, Jiangxi, Jiangsu, Zhejiang, Fujian, Guangdong, Guangxi, Sichuan, Chongqing, Guizhou).

NOTES. This species was recorded from Hunan firstly as *Xiphidiopsis fissa* Hsia & Liu, 1993 (Xia & Liu, 1993), which was transferred to the genus *Decma* (Gorochov *et al.*, 2005).

***Euxiphidiopsis capricercus* (Tinkham, 1943)**

MATERIAL EXAMINED. **Hunan Province:** Yongshun County, Xiaoxi, 8.VIII 2004, 103♀, Jianfeng Wang & Jiliang Wang leg.; Yuanling County, Jiemuxi, 1-2.VIII 2004, 29♀, Jianfeng Wang & Jiliang Wang leg.; Shimen County, Hupingshan, 20.VIII 2004, 1♂, 1♀, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Zhejiang, Fujian, Hubei, Chongqing, Guizhou, Sichuan).

NOTES. This species was recorded from Hunan firstly as *Xiphidiopsis capricercus* Tinkham, 1943 (Xia & Liu, 1993), but latter transferred to the genus *Euxiphidiopsis* (Liu *et al.*, 2010; Shi *et al.*, 2014).

***Kuzicus (Kuzicus) suzukii* (Matsumura et Shiraki, 1908)**

MATERIAL EXAMINED. **Hunan Province:** Jiangyong County, Qianjiadong, 18.IX 2004, 2♂, 2♀, Jianhua Huang leg.; Pingjiang County, Mufushan, 13.IX 2003, 1♀, Jianhua Huang leg.; Yanling County, Xiangshan Park, 19.IX 2003, 1♀, Jianhua Huang leg.; Anhua County, Hongyan, 14.VII 2004, 2♂, Jianfeng Wang and Jiliang Wang leg.; Fenghuang County, Liangtouyang, 30.VII 2004, 1♂, Jianfeng Wang and Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Hebei, Hubei, Chongqing, Guizhou, Hainan). – Japan, Korea.

NOTES. This species was firstly recorded from Hunan as *Xiphidiopsis suzukii* (Matsumura et Shiraki, 1908) (Xia & Liu, 1993), which was transferred to the genus *Kuzicus* (Gorochov, 1993).

***Leptoteratura (Leptoteratura) albicornis* (Motschulsky, 1866)**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Anhui, Sichuan, Chongqing), Japan.

NOTES. Recorded from Hunan by Xia & Liu (1993), where the species name was misspelled as *albicorne*.

***Meconemopsis quadrinotata* (Bey-Bienko, 1971)**

MATERIAL EXAMINED. **Hunan Province:** Pingjiang County, Mufushan, 14.IX 2003, 1♂, 1♀, Jianhua Huang leg.; Wugang County, Yunshan, 9.X 2004, 1♂, Jianhua Huang leg.; Jiangyong County, Yuankou, 23.IX 2004, 1♀, Jianhua Huang leg.; CHINA: Sangzhi County, Badagongshan, Doupengshan, 11.X 2014, 2♂, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Guangxi, Sichuan, Guizhou, Xizang). – Burma.

NOTES. This species was just transferred from the genus *Xiphidiopsis* to the genus *Mecconemopsis* (Wang *et al.*, 2015). Here this species is recorded from Hunan for the first time.

***Phlugiolopsis minuta* (Tinkham, 1943)**

MATERIAL EXAMINED. **Hunan Province:** Hengshan, 8.IX 2003, 1♀, Jianhua Huang leg.; the same locality, 29.VIII 2007, 1♂, 2♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Guangxi, Jiangxi, Zhejiang).

NOTES. This species was firstly recorded from Hunan as *Phlugiolopsis fallax* Hsia et Liu, 1993, which is treated as a junior synonym of *Phlugiolopsis minuta* (Tinkham, 1943) (Liu & Zhang, 2001).

***Phlugiolopsis brevis* Hsia et Liu, 1993**

MATERIAL EXAMINED. **Hunan Province:** Xinning County, Shunhuangshan, 5.V 2004, 1♂, Jianhua Huang leg.; Yongshun County, Xiaoxi, 6.VII 2004, 2♂, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Guangxi, Guizhou, Sichuan).

***Pseudocosmetura curva* Shi et Bian, 2012**

MATERIAL EXAMINED. **Hunan Province:** Zhangjiajie, 13.VIII 2004, 1♂ (holotype), Jianfeng Wang & Jiliang Wang leg.
DISTRIBUTION. China (Hunan).

***Sinocyrtaspis angustisulcus* Chang, Bian et Shi, 2012**

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, 14.VIII 2001, 1♂ (holotype), Fuming Shi leg.; Sangzhi County, Badagongshan, Doupengshan, 10.X 2014, 1♂, Jianhua Huang leg.
DISTRIBUTION. China (Hunan).

***Teratura (Macroteratura) megafurcula* (Tinkham, 1944)**

MATERIAL EXAMINED. **Hunan Province:** Jiangyong County, Qianjiadong, 15.IX 2004, 2♂, 1♀, Jianhua Huang leg.; Wugang County, Yunshan, 9.X 2004, 1♂, Jianhua Huang leg.; Sangzhi County, Badagongshan, Wudaoshui, 12.X 2014, 1♂, 1♀, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Zhejiang, Fujian, Anhui, Jiangxi, Hubei, Guangdong, Guangxi, Chongqing, Sichuan, Guizhou).

NOTES. This species was firstly recorded from Hunan as *Xiphidiopsis megafurcula* Tinkham, 1944 (Xia & Liu, 1993), which was transferred to the genus *Teratura* (Gorochoy, 1993).

***Teratura (Megaconema) geniculata* (Bey-Bienko, 1962)**

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, 10.VIII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Zhangjiajie, 8.VIII 2001, 1♀, Fuming Shi leg.

DISTRIBUTION. China (Hunan, Anhui, Henan, Hubei, Chongqing, Sichuan, Guizhou, Shaanxi, Taiwan).

NOTES. Here this species is firstly recorded from Hunan Province.

***Teratura (Stenoteratura) subtilis* Gorochoy et Kang, 2005**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan).

NOTES. This species was described from Hunan Province (Gorochoy *et al.*, 2005).

***Teratura (Teratura) cincta* (Bey-Bienko, 1962)**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Fujian, Jiangxi, Guangxi, Chongqing, Sichuan, Guizhou, Yunnan).

NOTES. This species was firstly recorded from Hunan as *Xiphidiopsis cincta* Bey-Bienko, 1962 (Xia & Liu, 1993), which latter was transferred to the genus *Teratura* (Gorochoy *et al.*, 2005).

***Xiphidiopsis (Xiphidiopsis) bituberculata* Ebner, 1939**

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, Wudao-shui, 12.X 2014, 1♂, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Anhui, Zhejiang, Chongqing, Sichuan, Guizhou, Guangxi).

***Xiphidiopsis (Xiphidiopsis) cheni* Bey-Bienko, 1955**

MATERIAL EXAMINED. **Hunan Province:** Anhua County, Liubuxi, 16.VII 2004, 7♂, 8♀, Jianfeng Wang & Jiliang Wang leg.; Tongdao County, Hongmenchong, 26.VII 2004, 4♂, 7♀, Jianfeng Wang & Jiliang Wang leg.; Tongdao County, Mujiao, 25.VII 2004, 3♂, 10♀, Jianfeng Wang & Jiliang Wang leg.; Yongshun County, Xiaoxi, 6-7.VIII 2004, 2♂, 1♀, Jianfeng Wang & Jiliang Wang leg.; Yuanling County, Jiemuxi, 1.VIII 2004, 3♀, Jianfeng Wang & Jiliang Wang leg.; Hongjiang County, Xuefengshan, 28.VII 2004, 1♂, 1♀, Jianfeng Wang & Jiliang Wang leg.; Shimen County, Hupingshan, 17.VIII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Fenghuang County, Liangtouyang, 30.VII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Huaihua, Zhongposhan, 21.VII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Zhangjiajie, 7-8.VIII 2001, 1♂, 4♀, Fuming Shi leg.

DISTRIBUTION. China (Hunan, Jiangxi, Zhejiang, Fujian, Anhui, Hubei).

***Xiphidiopsis (Xiphidiopsis) elongata* Hsia et Liu, 1993**

MATERIAL EXAMINED. **Hunan Province:** Shimen County, Hupingshan, 17.VIII 2004, 2♂, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Guangxi, Guizhou, Sichuan).

***Xiphidiopsis (Xiphidiopsis) excavata* Xia et Liu, 1993**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan).

NOTES. Recorded from Hunan by Xia & Liu (1993).

***Xiphidiopsis (Xiphidiopsis) gurneyi* (Tinkham, 1944)**

MATERIAL EXAMINED. **Hunan Province:** Sangzhi County, Badagongshan, 12-14.VIII 2001, 9♂, 8♀, Fuming Shi leg.; Shimen County, Hupingshan, 17.VIII 2004, 1♂, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Hubei, Anhui, Fujian, Guangxi, Guizhou, Chongqing, Sichuan).

NOTES. Liu & Zhang (2000) transferred this species to the genus *Euxiphidiopsis*, and Liu *et al.* (2010) followed this opinion. However, this has not been accepted generally to date (Shi *et al.*, 2014; Eades *et al.*, 2015). Here this species is firstly recorded from Hunan Province.

***Xizicus (Axizicus) appendiculatus* (Tinkham, 1944)**

MATERIAL EXAMINED. **Hunan Province:** Shimen County, Hupingshan, 19.VIII 2004, 2♀, Jianfeng Wang & Jiliang Wang leg.; HINA: Sangzhi County, Badagongshan, Nanmu-ping, 14.X 2014, 1♂, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Guizhou, Sichuan).

NOTES. Here this species is recorded from Hunan for the first time.

***Xizicus (Eoxizicus) howardi* (Tinkham, 1956)**

MATERIAL EXAMINED. **Hunan Province:** Zhangjiajie, 13.VIII 2004, 3♂, Jianfeng Wang & Jiliang Wang leg.; the same locality, 7.VIII 2001, 4♂, Fuming Shi leg.; Shimen County, Hupingshan, 17-18.VIII 2004, 2♂, Jianfeng Wang & Jiliang Wang leg.; Yuanling County, Fenghuangshan, 4.VIII 2004, 1♂, Jianfeng Wang & Jiliang Wang leg.; Wangcheng County, Heimingfeng, 12.IX 2003, 1♂, 1♀, Jianhua Huang leg.; Hengshan, 8.IX 2003, 1♀, Jianhua Huang leg.; Pingjiang County, Mufushan, 14.IX 2003, 1♂, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Shaanxi, Henan, Hubei, Anhui, Zhejiang, Fujian, Guangxi, Guizhou, Sichuan).

NOTES. This species was firstly recorded from Hunan as *Xiphidiopsis howardi* Tinkham, 1956 (Xia & Liu, 1993), but latter transferred to the genus *Xizicus* (Gorochov, 1993).

***Xizicus (Eoxizicus) kulingensis* (Tinkham, 1943)**

MATERIAL EXAMINED. **Hunan Province:** Pingjiang County, Mufushan, 14.IX 2003, 2♂, Jianhua Huang leg.

DISTRIBUTION. China (Hunan, Jiangxi).

NOTES. Here this species is firstly recorded from Hunan.

***Xizicus (Eoxizicus) magnus* (Xia et Liu, 1993)**

MATERIAL EXAMINED. **Hunan Province:** Yongshun County, Xiaoxi, 6.VIII 2004, 1♂, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Fujian, Guangxi, Guizhou).

NOTES. Here this species is recorded from Hunan for the first time.

***Xizicus (Eoxizicus) xiai* (Liu et Zhang, 2000)**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan, Guangxi, Chongqing, Guizhou, Yunnan).

NOTES. This species was firstly recorded from Hunan (Liu & Zhang, 2000) as *Eoxizicus xiai* Liu et Zhang, 2000, but latter it was transferred to the genus *Xizicus* (Gorochov *et al.*, 2005; Eades *et al.*, 2015).

***Xizicus (Haploxizicus) hunanensis* (Hsia et Liu, 1993)**

MATERIAL. No specimens from Hunan have been examined by the authors.

DISTRIBUTION. China (Hunan).

NOTES. This species was described from Hunan as *Xiphidiopsis hunanensis* (Xia & Liu, 1993), but latter it was transferred to the genus *Xizicus* (Wang *et al.*, 2014).

***Xizicus (Haploxizicus) maculatus* (Hsia et Liu, 1993)**

MATERIAL EXAMINED. **Hunan Province:** Zhangjiajie, 11.VIII 2001, 1♀, Fuming Shi leg.; the same locality, 14.VIII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Shimen County, Hupingshan, 19.VIII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan).

NOTES. This species was described from Hunan as *Xiphidiopsis maculata* (Xia & Liu, 1993), and recently transferred to the genus *Xizicus* (Wang *et al.*, 2014).

***Xizicus (Haploxizicus) spathulatus* (Tinkham, 1944)**

MATERIAL EXAMINED. **Hunan Province:** Zhangjiajie, 13.VIII 2004, 10♂, 4♀, Jianfeng Huang & Jiliang Wang leg.; the same locality, 8-11.VIII 2001, 3♂, 4♀, Fuming Shi leg.; Tongdao County, Shangyan, 24.VII 2004, 1♂, Jiliang Wang & Jianfeng Wang leg.; Shimen County, Hupingshan, 17.VIII 2004, 1♀, Jiliang Wang and Jianfeng Wang leg.

DISTRIBUTION. China (Hunan, Hubei, Guangxi, Chongqing, Sichuan, Guizhou).

NOTES. Here this species is recorded from Hunan for the first time.

***Xizicus (Haploxizicus) szechwanensis* (Tinkham, 1944)**

MATERIAL EXAMINED. **Hunan Province:** Shimen County, Hupingshan, 17-19.VIII 2004, 5♂, 20♀, Jianfeng Wang & Jiliang Wang leg.; Zhangjiajie, 14.VIII 2004, 7♂, 4♀, Jianfeng Wang & Jiliang Wang leg.; the same locality, 7-8.VIII 2004, 4♂, 2♀, Fuming Shi leg.; Yongshun County, Xiaoxi, 6-8.VIII 2004, 2♂, 2♀, Jianfeng Wang & Jiliang Wang leg.; Yuanling County, Jiemuxi, 2.VIII 2004, 2♂, Jianfeng Wang & Jiliang Wang leg.; Huaihua, Zhongposhan, 21.VII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Anhua County, Hongyan, 14.VII 2004, 1♂, Jianfeng Wang & Jiliang Wang leg.; Anhua County, Liubuxi, 17.VI 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Tongdao County, Mujiao, 26.VII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.; Tongdao County, Hongmenchong, 25.VII 2004, 1♀, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Zhejiang, Anhui, Jiangxi, Guangxi, Chongqing, Sichuan, Guizhou, Yunnan).

NOTES. This species was firstly recorded from Hunan as *Xiphidiopsis szechwanensis* Tinkham, 1944 (Xia & Liu, 1993), which was transferred to the genus *Xizicus* (Gorochov *et al.*, 2005).

***Xizicus (Xizicus) fascipes* (Bey-Bienko, 1955)**

MATERIAL EXAMINED. **Hunan Province:** Tongdao County, Mujiao, 26.VII 2004, 2♂, 3♀, Jianfeng Wang & Jiliang Wang leg.; Sangzhi County, Badagongshan, 13.VIII 2004, 6♂, 11♀, Jianfeng Wang & Jiliang Wang leg.; Sangzhi County, Badagongshan, Nanmuping, 14.X 2014, 1♂, 2♀, Jianhua Huang leg.; the same locality, 15.X 2014, 3♂, Jianhua Huang leg.; Zhangjiajie, 13-15.VIII 2004, 6♂, 15♀, Jianfeng Wang & Jiliang Wang leg.; the same locality, 7-11.VIII 2001, 7♂, 8♀, Fuming Shi leg.; Shimen County, Hupingshan, 17-20.VIII 2004, 6♂, 13♀, Jianfeng Wang & Jiliang Wang leg.

DISTRIBUTION. China (Hunan, Guangxi, Chongqing, Sichuan, Guizhou).

NOTES. This species was firstly recorded from Hunan as *Xiphidiopsis fascipes* Bey-Bienko, 1955 (Xia & Liu, 1993), but latter it was transferred to the genus *Xizicus* (Gorochov, 1993).

DISCUSSION

Up to now (Xiao & Huang, 2015, and the present paper), 100 species in eight subfamilies of the family Tettigoniidae are recorded from Hunan Province of China. The most diverse subfamilies are Phaneropterinae (37 species in 15 genera) and Meconematinae (30 species in

13 genera). Less diverse subfamilies are Conocephalinae (16 species in 5 genera), Tettigoniinae (8 species in 3 genera), Pseudophyllinae (3 species in 2 genera), Mecopodinae, Lipotactinae and Hexacentrinae (2 species in 1 genus for each of the last three subfamilies). However, this result is much less than those recorded in neighboring provinces of China, for example, 177 species in Guangxi, 112 species in Guizhou and 178 species in Yunnan. Therefore, it is necessary to do a further comprehensive investigation on the biodiversity of Tettigoniidae in Hunan. We believe that much more species of Tettigoniidae will be found in Hunan Province in the near future after intensive collecting.

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